



US009638464B2

(12) **United States Patent**  
**Puckett et al.**

(10) **Patent No.:** **US 9,638,464 B2**  
(45) **Date of Patent:** **May 2, 2017**

(54) **DUAL TUMBLE DRYER UNIT AND SYSTEM**

(56) **References Cited**

(71) Applicant: **BARLEAN'S ORGANIC OILS, LLC**,  
Ferndale, WA (US)

(72) Inventors: **John Puckett**, Ferndale, WA (US);  
**Mark S. Lemna**, Ferndale, WA (US)

(73) Assignee: **GEL CAP TECHNOLOGIES**, Ferndale,  
WA (US)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 560 days.

(21) Appl. No.: **14/286,872**

(22) Filed: **May 23, 2014**

(65) **Prior Publication Data**  
US 2014/0345157 A1 Nov. 27, 2014

**Related U.S. Application Data**

(60) Provisional application No. 61/826,891, filed on May  
23, 2013.

(51) **Int. Cl.**  
**F26B 11/02** (2006.01)  
**F26B 11/04** (2006.01)  
**A61J 3/07** (2006.01)

(52) **U.S. Cl.**  
CPC ..... **F26B 11/02** (2013.01); **A61J 3/07**  
(2013.01); **F26B 11/0436** (2013.01)

(58) **Field of Classification Search**  
None  
See application file for complete search history.

U.S. PATENT DOCUMENTS

1,450,917 A \* 4/1923 Goldthorpe ..... F26B 11/0445  
34/127  
1,536,806 A \* 5/1925 Merrill ..... F26B 11/0436  
34/129  
2,687,578 A \* 8/1954 Richterkesing ..... D06F 58/02  
156/291

(Continued)

FOREIGN PATENT DOCUMENTS

DE 19833624 1/2000  
DE 102005036804 2/2007

(Continued)

OTHER PUBLICATIONS

International Preliminary Report on Patentability issued Mar. 18,  
2014 in PCT/US2012/028814 (7 pages).

(Continued)

*Primary Examiner* — David J Laux

(74) *Attorney, Agent, or Firm* — FisherBroyles, LLP;  
Jason M. Pass

(57) **ABSTRACT**

A dual tumble dryer unit that includes a housing that defines  
an interior, a divider that extends between first and second  
side walls and divides the interior into first and second  
sections, and first and second dryer assemblies that are  
positioned in the first and second sections. The first and  
second dryer assemblies each include a basket positioned to  
rotate about a horizontal axis, and a blower disposed posi-  
tioned to blow air on the basket. A first drying path is defined  
between a first entry opening defined in the first side wall,  
the first basket and a first exit opening defined in the second  
side wall, and a second drying path is defined between a  
second entry opening defined in the first side wall, the  
second basket and a second exit opening defined in the  
second side wall.

**11 Claims, 12 Drawing Sheets**

